

What is claimed is:

1. A storage stable enclosed dental composition, comprising:
  - a container, an implement and a dental composition,
  - said implement having an elongated arm and an applicator,
  - said applicator being supported by said arm,
  - said applicator and said dental composition being enclosed by said container, said container comprising a copolymer of a cycloolefin and an open chain olefin,
  - said dental composition, comprising at least 1 percent by weight of volatile organic solvent, at least 99 percent of said solvent remaining in said dental composition in said container after storage at about 43°C for one week.
2. The storage stable enclosed dental composition of claim 1 wherein said dental composition further comprises a polymerizable material.
3. The storage stable enclosed dental composition of claim 1 wherein said volatile organic solvent comprises at least 10 percent by weight of said dental composition.
4. The storage stable enclosed dental composition of claim 1 wherein said container is molded and has an average wall thickness of from about 0.4 mm to about 6 mm.
5. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is stored at about 23°C. for at least one year and at least 80 percent of said volatile organic solvent

remains in said container.

6. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is stored at about 23°C for at least two years and at least 90 percent of said volatile organic solvent remains in said container

7. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is stored at about 23°C for at least two years and at least 95 percent of said volatile organic solvent remains in said container.

8. The storage stable enclosed dental composition of claim 1 wherein said volatile organic solvent comprises acetone.

9. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is at least 20 percent by weight acetone both before and after storage at about 23°C for two years and at least 95 percent of said volatile organic solvent remains in said container after said storage.

10. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is at least 20 percent by weight acetone both before and after storage at about 23°C for one year and at least 90 percent of said acetone remains in said container after said storage.

11. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is at least 40 percent by weight acetone both before and after storage at about 23°C for two years and at least 95 percent of said volatile organic solvent remains in said container after said storage.

12. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is at least 40 percent by weight acetone both before and after storage at about 23°C for one year and at least 90 percent of said acetone remains in said container after said storage.

13. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is at least 50 percent by weight acetone both before and after storage at about 23°C for two years and at least 95 percent of said volatile organic solvent remains in said container after said storage.

14. The storage stable enclosed dental composition of claim 1 wherein said packaged dental composition is at least 50 percent by weight acetone both before and after storage at about 23°C for one year and at least 90 percent of said acetone remains in said container after said storage.

15. The storage stable enclosed dental composition of claim 1 further comprising a closure, and wherein said container has inner and outer wall faces, and said container outer wall face has a groove, said

applicator is supported by said closure, said closure having a cover and a connector, said connector having an inner and end wall faces, said connector inner wall face sealing and engaging said container end outer wall face,

said cover and said container inner wall face enclosing a chamber, said container wall having a first outer flange, said connector end wall face sealing and engaging said first outer flange.

16. The storage stable enclosed dental composition of claim 15, wherein said container wall has a second outer flange.

17. The storage stable enclosed dental composition of claim 16, wherein said closure is supported by at least one outer flange.

18. The storage stable enclosed dental composition of claim 1 wherein said container has an outer wall with a groove, and said container wall is adapted to break open along said groove.

19. The storage stable enclosed dental composition of claim 18, wherein said groove forms a line extending circumferentially around said container.

20. The storage stable enclosed dental composition of claim 16, wherein said elongated arm extends through said container and said elongated arm is supported by said container.

21. A stored enclosed dental product made by the process comprising:

enclosing an applicator and a dental composition having at least one volatile component in a container, said container comprising thermoplastic polymer having a high chemical resistance and a high permeability barrier capability for water, and

storing said dental composition in said container for at least two weeks at 37°C and after said two weeks at least 90 percent of said volatile component remains in said dental composition in said container.

22. A stored enclosed dental product made by the process comprising:

enclosing an applicator and a dental adhesive composition comprising volatile organic solvent in a container, said container comprising a thermoplastic copolymer of a cycloolefin and an open chain olefin, and effectively retaining said volatile organic solvent in said dental composition while storing said dental composition in said container for at least 1 week at about 23°C.

23. The product of claim 22 wherein said dental composition is a single unit dosage and said thermoplastic polymer has a high chemical resistance, a high penetration barrier capability for water, high penetration barrier capability for solvent and a high permeability barrier capability for water.

24. The stored enclosed dental product of claim 22 wherein said solvent comprises a polar organic solvent, said copolymer of a cycloolefin and an open chain olefin has a high permeability barrier capability for water and high chemical resistance, and at least 90 percent of said polar organic solvent remains in said dental composition in said container while stored at about 23 °C for about two years.

25. The stored enclosed dental product by the process of claim 24 wherein said dental composition comprises at least 1 percent by weight of said solvent, and at least 99 percent of said solvent remains in said dental composition in said container after said storage.

26. The stored enclosed dental product by the process of claim 24 wherein said dental composition comprises at least 15 percent by weight of said solvent, and at least 99.8 percent of said solvent remains in said dental composition in said container after said storage.

27. The stored enclosed dental product by the process of claim 24 wherein said dental composition bonds to dentin with effectively the same amount of bond strength before and after said storing.

28. The stored enclosed dental product by the process of claim 22 further comprising a handle, said handle being supported by and connected to said container.

29. The stored enclosed dental product by the process of claim 28 wherein said handle is connected through an implement arm to said applicator, and said container has an outer wall with a groove, and said container wall is adapted to break open along said groove, while said applicator remains connected to said handle.

30. The stored enclosed dental product by the process of claim 29 wherein said implement arm is low density polyethylene or polypropylene.